

**Edwards & Angell LLP**

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Pages (including cover) : 24

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**To :**

Name	Company	Fax	Phone
Shridan Swope, Ph.D.	U.S. Patent & Trademark Office	571.273.0943	571.272.0943

If you experience problems receiving this fax, please call Kathryn Piffat at (001) 617.439.4444.

**Message :**

U.S.S.N. 10/009,158; Filed Oct. 25, 2001; Nanba et al. (Human Cell Line Showing Stable Expression of Cytochromes P450)

Letter (3 pages); Statement by the Attorney of Record Regarding the Deposit of Microorganisms under the Budapest Treat (3 pages); eight Receipts in the Case of an Original Deposit (8 pages); eight translations of Receipts (8 pages); Certificate of Facsimile Transmission (1 page); this fax cover sheet (1 page).

**Please confirm receipt. Thank you!**

Practitioner's Docket No. 46342/56603

**PATENT****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Nanba et al.

Application No.: 10/009,158

Group No.: 1652

Filed: October 25, 2001

Examiner: S. Swope

For: HUMAN CELL LINE SHOWING STABLE EXPRESSION OF CYTOCHROMES P450

[ ] \*Patent No.: N/A Issue Date: N/A

*\*NOTE: Insert name(s) of all inventor(s) and also title for patent.*

**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**CERTIFICATION OF FACSIMILE TRANSMISSION**

I hereby certify that the following papers are being facsimile transmitted to the U.S. Patent and Trademark Office to the attention of Examiner: Sheridan Swope, Ph.D., Group Art Unit: 1652, Fax No.: 571-273-0943, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on January 29, 2004.

Kathryn A. Piffat, Ph.D.  
Signature  
Kathryn A. Piffat, Ph.D. (Reg. No. 34,901)  
(type or print name of person signing certification)

In accordance with your facsimile, I am faxing the attached items, including the cover sheet, the certificate of facsimile transmission, the Letter (3 pages), eight (8) Receipts in the Case of an Original Deposit and eight (8) translations thereof, and the Statement by the Attorney of Record Regarding the Deposit of Microorganisms under the Budapest Treaty (3 pages), as well as this present certificate of facsimile transmission.

Please confirm receipt of this transmission and notify us if you require a hard copy of any or all of these items. We very much appreciate your assistance in this matter.

Kathryn A. Piffat, Ph.D.  
Kathryn A. Piffat, Ph.D. (Reg. No. 34,901)

BOS2\_431975.1

(Certification of Facsimile Transmission--page 1 of 1)

Docket No. 46342/56603

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Nanba et al.

EXAMINER: S. Swope

SERIAL NO. 10/009,158

GROUP: 1652

FILED: October 25, 2001

FOR: HUMAN CELL LINE SHOWING STABLE EXPRESSION OF  
CYTOCHROMES P450

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being facsimile transmitted to the U.S. Patent and Trademark Office to the attention of Examiner: Sheridan Swope, Ph.D., Group Art Unit: 1652, Fax No.: 571-273-0943, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on January 29, 2004.

*Kathryn A. Piffat, Ph.D.*  
Kathryn A. Piffat, Ph.D. (Reg. No. 34,901)  
(type or print name of person signing certification)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

LETTER

The Applicants wish to express their thanks to the Examiner for her efforts in the prosecution of the above-referenced application and for her facsimile dated 23 January 2004.

1. The Applicants have agreed to the Examiner's amendment and the description of Allowable Subject Matter with the following two reservations:

a. With respect to the Examiner's amendment to the specification, the Applicants respectfully submit that the number of the PCT application contains a typographical error and should be PCT/JP00/02763. Applicants respectfully request that the proposed amendment be corrected accordingly.

Nanba *et al.*  
USSN 10/009,158  
Page 2 of 3

b. With respect to the Allowable Subject Matter, the Applicants respectfully submit that the name of the cell line is "Hepc" and not [[Hepc1]]. Applicants respectfully request that this typographical error be corrected accordingly.

2. The Examiner also requested submission of evidence of compliance with the requirements for the deposit of microorganisms under the Budapest Treaty. Applicants submit the following items herewith:

- a. Eight (8) Receipts in the Case of an Original Deposit (Japanese);
- b. Eight (8) English translations of the above Receipts; and
- c. Statement by the Attorney of Record Regarding the Deposit of Microorganisms under the Budapest Treaty.

3. In view of the foregoing amendments and remarks, the present application is respectfully considered in condition for allowance. An early reconsideration and notice of allowance are earnestly solicited.

It is believed that all outstanding issues have been addressed by this submission and that all the claims are in condition for allowance. If discussion of any amendment or remark made herein would advance this important case to allowance, the Examiner is invited to call the undersigned as soon as convenient.

If a petition for an additional extension of time is required, then the Examiner is requested to treat this as a conditional petition for an additional extension of time. Although it is not believed that any additional fee (in addition to the fee concurrently submitted) is

Nanba *et al.*  
USSN 10/009,158  
Page 3 of 3

required to consider this submission, the Commissioner is hereby authorized to charge our deposit account no. 04-1105 should any fee be deemed necessary.

Respectfully submitted,

Date: January 29, 2004

Customer No. 21874

*Kathryn A. Piffat, Ph.D.*  
Kathryn A. Piffat, Ph.D. (Reg. No. 34,901)  
Intellectual Property Practice Group  
EDWARDS & ANGELL, LLP  
P.O. Box 55874  
Boston, MA 02205  
Telephone: 617-439-4444  
Facsimile: 617-439-4170

BOS2 431965.1

Docket No. 46342/56603

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Nanba et al.

EXAMINER: S. Swope

SERIAL NO. 10/009,158

GROUP: 1652

FILED: October 25, 2001

FOR: HUMAN CELL LINE SHOWING STABLE EXPRESSION OF  
CYTOCHROMES P450

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being facsimile transmitted to the U.S. Patent and Trademark Office to the attention of Examiner: Sheridan Swope, Ph.D., Group Art Unit: 1652, Fax No.: 571-273-0943, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on January 29, 2004.

*Kathryn A. Piffat, Ph.D.*  
Kathryn A. Piffat, Ph.D. (Rev. No. 34,901)  
(type or print name of person signing certification)

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Statement by the Attorney of Record Regarding the Deposit of Microorganisms under  
the Budapest Treaty

I, Kathryn A. Piffat, Ph.D., state that:

1. I am an associate in the firm of Edwards & Angell, LLP, 101 Federal Street, Boston, Massachusetts 02110.
2. I am an attorney of record in the above-referenced application.
3. Deposits of microorganisms and cell lines, which are described in the above-referenced application, were made on April 12, 2000, under the provisions of the Budapest Treaty at the National Institute of Bioscience and Human-Technology

*so/PB*

## 国際様式 INTERNATIONAL FORM

[特許手続上の微生物の寄託の国際的承認  
に関するブダペスト条約]

下記国際寄託當局によって規則 7. 1 に従い  
発行される。

## 原寄託についての受託証

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

## RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT

Issued pursuant to Rule 7. 1 by the INTERNATIONAL DEPOSITORY AUTHORITY Identified at the bottom of this page.

氏名（名称） 武田薬品工業株式会社  
代表者 武田 国男

寄託者

あて名 大阪市中央区浪速町四丁目1番1号

般

1. 種生體の表示	
(寄託者が付した識別のための表示) Rept./IAL. 4	(受託番号) FERM BP- 7125
2. 科学的性質及び分類學上の位置	
1種の微生物には、次の事項を記載した文書が添付されていた。 <input checked="" type="checkbox"/> 科学的性質 <input checked="" type="checkbox"/> 分類學上の位置	
3. 受領及び受託	
本國際寄託當局は、平成 12 年 4 月 12 日（原寄託日）に受領した1種の微生物を受託する。	
4. 経営請求の受領	
本國際寄託當局は、 年 月 日（原寄託日）に1種の微生物を受領した。 そして、 年 月 日に原寄託よりブダペスト条約に基づく寄託への移管請求を受領した。	
5. 國際寄託當局	
通商産業省工業技術院生命工學工業技術研究所 National Institute of Bioscience and Human-Technology 名 称： Agency of Natural Resources and Environmental Science and Technology 所 長 大 須 俊一郎 Dr. Shunichiro Ochiai Director-General あて名： 日本国茨城県つくば市大柏町三丁目35番（郵便番号305-8566） 3-3, Kigashidai-chome, Tsukuba-shi, Ibaraki-ken 305-8566, JAPAN	
平成12年(2000) 4月12日	

BUDAPEST TREATY ON THE INTERNATIONAL  
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS  
FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT  
Issued pursuant to Rule 7.1 by the  
INTERNATIONAL DEPOSITORY AUTHORITY  
Identified at the bottom of this page

To: Depositor

Name: Takeda Chemical Industries, Ltd.  
Kunio TAKEDA  
representative

Address: 1-1, Doshomachi 4-chome, Chuo-ku, OSAKA 541 JAPAN

1. IDENTIFICATION OF THE MICROORGANISM

Identification reference  
given by the DEPOSITOR:

Hepc/1A1.4

Accession number given by the INTERNATIONAL  
DEPOSITORY AUTHORITY

FERM BP-7125

2. SCIENTIFIC DESCRIPTION AND PROPOSED TAXONOMIC DESIGNATION

The microorganism identified under 1 above was accompanied by:

- a scientific description  
 a proposed taxonomic designation

3. RECEIPT AND ACCEPTANCE

This International Depository Authority accepts the microorganism identified  
under 1 above, which was received by it on April 12, 2000 (date of the original  
deposit).

4. RECEIPT OF REQUEST FOR CONVERSION

This International Depository Authority accepted the microorganism identified  
under 1 above, which was received by it on - - - - (date of the original  
deposit), and received a request for conversion to a deposit under the Budapest  
Treaty from the original deposit on - - - -.

5. INTERNATIONAL DEPOSITORY AUTHORITY

Name: National Institute of Bioscience and Human-Technology  
Agency of Industrial Science and Technology

Pb. D., DIRECTOR GENERAL  
Michio Oishi

Date: April 12, 2000

Address: 1-3, Higashi 1-chome Tsukuba-shi Ibaraki-ken  
305-8566, JAPAN

## 国际様式 INTERNATIONAL FORM

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

## RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT

Issued pursuant to Rule 7.1 by the INTERNATIONAL DEPOSITORY AUTHORITY Identified at the bottom of this page.

[特許手続上の微生物の寄託の国際的承認に関するブダペスト条約]

下記国際寄託当局によって規則7.1に従い発行される。

## 原寄託についての受託証

氏名（名前） 武田薬品工業株式会社  
代表者 武田 勝男

寄託者 あて名 〒 大阪市中央区道修町四丁目1番1号

股

1. 微生物の表示	
(寄託者が付した識別のための表示) Hedge/JAE.D	(受託者番号) FERM BP- 7124
2. 科学的性質及び分類学上の位置	
1種の微生物には、次の事項を記載した文書が添付されていた。  ■ 科学的性質 ■ 分類学上の位置	
3. 受領及び受託	
本国際寄託当局は、平成12年4月12日（原寄託日）に受領した1種の微生物を受託する。	
4. 管理請求の受領	
本国際寄託当局は、 年 月 日（原寄託日）に1種の微生物を受領した。 そして、 年 月 日に原寄託よりブダペスト条約に基づく寄託への移管請求を受領した。	
5. 国際寄託当局	
<p>通商産業省工業技術院生命工学工業技術研究所</p> <p>名 称： National Institute of Biosciences and Human-Technology Agency of Natural Resources and Environmental Sciences and Technology</p> <p>所 長 大野 信一郎 (Dr. Shin-ichiro Ono) Director-General</p> <p>あて名： 日本国茨城県つくば市桜山町1番地 (郵便番号305-8566) 1-3, Higashi 1-chome Tsukuba-shi Ibaraki-ken 305-8566, JAPAN</p>	
平成12年(2000) 4月12日	

BUDAPEST TREATY ON THE INTERNATIONAL  
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS  
FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT  
issued pursuant to Rule 7.1 by the  
INTERNATIONAL DEPOSITORY AUTHORITY  
identified at the bottom of this page

To: Depositor

Name: Takeda Chemical Industries, Ltd.  
Kunio TAKEDA  
representative

Address: 1-1, Doshomachi 4-chome, Chuo-ku, OSAKA 541 JAPAN

1. IDENTIFICATION OF THE MICROORGANISM

Identification reference  
given by the DEPOSITOR:

Accession number given by the INTERNATIONAL  
DEPOSITORY AUTHORITY

Hepc/IA2.9

FERM BP-7124

2. SCIENTIFIC DESCRIPTION AND PROPOSED TAXONOMIC DESIGNATION

The microorganism identified under 1 above was accompanied by:

- a scientific description
- a proposed taxonomic designation.

3. RECEIPT AND ACCEPTANCE

This International Depository Authority accepts the microorganism identified  
under 1 above, which was received by it on April 12, 2000 (date of the original  
deposit).

4. RECEIPT OF REQUEST FOR CONVERSION

This International Depository Authority accepted the microorganism identified  
under 1 above, which was received by it on - - - - - (date of the original  
deposit), and received a request for conversion to a deposit under the Budapest  
Treaty from the original deposit on - - - - -.

5. INTERNATIONAL DEPOSITORY AUTHORITY

Name: National Institute of Bioscience and Human-Technology  
Agency of Industrial Science and Technology

Ph. D., DIRECTOR GENERAL  
Michio Oishi

Date: April 12, 2000

Address: 1-3, Higashi 1-chome Tsukuba-shi Ibaraki-ken  
305-8566, JAPAN

国際形式 INTERNATIONAL FORM



[ 特許手続上の微生物の寄託の国際的承認 ]  
に関するブダペスト条約

下記国際寄託当局によって規則7.1に従い  
発行される。

原寄託についての受託証

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT

Issued pursuant to Rule 7.1 by the  
INTERNATIONAL DEPOSITORY AUTHORITY  
Identified at the bottom of this  
page.

氏名（名称） 武田薬品工業株式会社  
代表者 武田 国男  
寄託者 あて名 〒  
大阪市中央区道修町四丁目1番1号

般

1. 微生物の表示	
(寄託者が付した識別のための表示) Hepc/2B6: 68	(受託番号) FERM BP- 7126
2. 科学的性質及び分類学上の位置	
1種の微生物には、次の事項を記載した文書が添付されていた。 ■ 科学的性質 ■ 分類学上の位置	
3. 受領及び受託	
本国際寄託当局は、平成12年4月12日（原寄託日）に受領した1種の微生物を受託する。	
4. 移管請求の手續	
本国際寄託当局は、 年 月 日（原寄託日）に1種の微生物を受領した。 そして、 年 月 日に原寄託よりブダペスト条約に基づく寄託への移管請求を受領した。	
5. 国際寄託当局	
<p>通商産業省工業技術院生命工学工業技術研究所</p> <p>名称： National Institute of Biostechology and Human-Technology Agence de la Recherche sur la Biologie et la Technologie 所長 大曾 信一郎 Dr. Shin-ichiro Ochiai Director-General</p> <p>あて名： 日本茨城県つくば市桜井町1番地 (郵便番号305-8566) 1-3, Higashib1-chome Tsukuba-shi Ibaraki-ken 305-8566, JAPAN</p> <p>平成12年(2000) 4月12日</p>	

BUDAPEST TREATY ON THE INTERNATIONAL  
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS  
FOR THE PURPOSES OF PATENT PROCEDURE

**INTERNATIONAL FORM**

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT  
issued pursuant to Rule 7.1 by the  
INTERNATIONAL DEPOSITORY AUTHORITY  
identified at the bottom of this page

To: Depositor

Name: Takeda Chemical Industries, Ltd.  
Kunio TAKEDA  
representative

Address: 1-1, Doshimachi 4-chome, Chuo-ku, OSAKA 541 JAPAN

## **1. IDENTIFICATION OF THE MICROORGANISM**

**Identification reference  
given by the DEPOSITOR:**

Accession number given by the INTERNATIONAL  
DEPOSITORY AUTHORITY

Депс/286.68

FERM BP-7126

## 2. SCIENTIFIC DESCRIPTION AND PROPOSED TAXONOMIC DESIGNATION

The microorganism identified under 1 above was accompanied by:

- a scientific description  
 a proposed taxonomic designation

### **3. RECEIPT AND ACCEPTANCE**

This International Depository Authority accepts the microorganism identified under I above, which was received by it on April 12, 2000 (date of the original deposit).

**4. RECEIPT OF REQUEST FOR CONVERSION**

This International Depository Authority accepted the microorganism identified under I above, which was received by it on - - - - (date of the original deposit), and received a request for conversion to a deposit under the Budapest Treaty from the original deposit on - - - -.

#### **5. INTERNATIONAL DEPOSITORY AUTHORITY**

Name: National Institute of Bioscience and Human-Technology  
Agency of Industrial Science and Technology

Ph. D., DIRECTOR GENERAL  
Michio Oishi

Date: April 12, 2000

Address: 1-3, Higashi 1-chome Tsukuba-shi Ibaraki-ken  
305-8566, JAPAN

## 国際様式 INTERNATIONAL FORM

[ 特許手続上の微生物の寄託の国際的承認  
に関するブダペスト条約 ]

下記国际寄託当局によって規則7, 1に従い  
発行される。

## 原寄託についての受託証

氏名（名称） 武田薬品工業株式会社  
代表者 武田 國男

寄託者

あて名 〒 大阪市中央区道修町四丁目1番1号

般

BUDAPEST TREATY ON THE INTERNATIONAL  
RECOGNITION OF THE DEPOSIT OF  
MICROORGANISMS FOR THE PURPOSES OF  
PATENT PROCEDURE

RECEIPT IN THE CASE OF AN ORIGINAL  
DEPOSIT

Issued pursuant to Rule 7.1 by the  
INTERNATIONAL DEPOSITORY AUTHORITY  
Identified at the bottom of this  
page.

1. 微生物の表示	
(寄託者が付した識別のための表示) Hope/SCS, 48	(受託番号) FERM BP- 7123
2. 科学的性質及び分類学上の位置	
1 植の微生物には、次の事項を記載した文書が添付されていた。 <input checked="" type="checkbox"/> 科学的性質 <input checked="" type="checkbox"/> 分類学上の位置	
3. 受取及び受託	
本國際寄託当局は、平成 12 年 4 月 12 日（原寄託日）に発表した 1 植の微生物を受託する。	
4. 移管請求の受領	
本國際寄託当局は、 年 月 日（原寄託日）に 1 植の微生物を受領した。 そして、 年 月 日に原寄託よりブダペスト条約に基づく寄託への移管請求を受領した。	
5. 国際寄託当局	
通商産業省工業技術院生命工学工業技術研究所  National Institute of Biotechnology Agency of Natural Resources and Environmental Science and Technology Director-General あて名：日本関茨県つくば市篠崎町1丁目1番1号 (郵便番号305-8566) 1-1, Higashimatsubara 1-chome Tsukuba-shi Ibaraki-ken 305-8566, JAPAN 平成12年(2000) 4月12日	

BUDAPEST TREATY ON THE INTERNATIONAL  
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS  
FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT  
issued pursuant to Rule 7.1 by the  
INTERNATIONAL DEPOSITORY AUTHORITY  
identified at the bottom of this page

To: Depositor

Name: Takeda Chemical Industries, Ltd.  
Kunio TAKEDA  
representative

Address: 1-1, Doshonachi 4-chome, Chuo-ku, OSAKA 541 JAPAN

1. IDENTIFICATION OF THE MICROORGANISM

Identification reference given by the DEPOSITOR:	Accession number given by the INTERNATIONAL DEPOSITORY AUTHORITY
Hepc/2C8.46	FERM BP-7123

2. SCIENTIFIC DESCRIPTION AND PROPOSED TAXONOMIC DESIGNATION

The microorganism identified under 1 above was accompanied by:

- a scientific description  
 a proposed taxonomic designation.

3. RECEIPT AND ACCEPTANCE

This International Depository Authority accepts the microorganism identified under 1 above, which was received by it on April 12, 2000 (date of the original deposit).

4. RECEIPT OF REQUEST FOR CONVERSION

This International Depository Authority accepted the microorganism identified under 1 above, which was received by it on - - - - - (date of the original deposit), and received a request for conversion to a deposit under the Budapest Treaty from the original deposit on - - - - -.

5. INTERNATIONAL DEPOSITORY AUTHORITY

Name: National Institute of Bioscience and Human-Technology  
Agency of Industrial Science and Technology  
Ph. D., DIRECTOR GENERAL Date: April 12, 2000  
Michio Oishi

Address: 1-3, Higashi 1-chome Tsukuba-shi Ibaraki-ken  
305-8568, JAPAN

## 国際様式 INTERNATIONAL FORM

特許手続上の微生物の寄託の国際的承認  
に関するブダペスト条約

下記国際寄託当局によって規則7.1に従い  
発行される。

## 原寄託についての受託証

BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE.

## RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT

Issued pursuant to Rule 7.1 by the INTERNATIONAL DEPOSITORY AUTHORITY identified at the bottom of this page.

氏名（名称） 式田薬品工業株式会社  
代表者 武田 駿男  
寄託者 殿  
あて名 下  
大阪市中央区道修町四丁目1番1号

1. 微生物の表示	
(寄託者が付した識別のための表示) Hope/SCB. 1	(受託番号) FERM BP- 7122
2. 科学的性質及び分類学上の位置	
1種の微生物には、次の事項を記載した文書が添付されていた。  <input checked="" type="checkbox"/> 科学的性質 <input checked="" type="checkbox"/> 分類学上の位置	
3. 受託及び受託日	
本国际寄託当局は、平成12年 4月12日（原寄託日）に受領した1種の微生物を受託する。	
4. 管理請求の受領	
本国际寄託当局は、 年 月 日（原寄託日）に1種の微生物を受領した。 そして、 年 月 日に原寄託よりブダペスト条約に基づく寄託への移管請求を受領した。	
5. 国際寄託当局	
通商産業省工業技術院生命工学工業技術研究所 National Institute of Biotechnology and Human-Technology 名称： Agency of Industrial Science and Technology 所長 大塚 健一 Dr. Shin-ichi Otsuka DIRECTOR-General あて名： 日本国茨城県つくば市東二丁目二番三号（郵便番号305-8566） 1-3, Higashi 1-chome Tsukuba-shi Ibaraki-ken 305-8566, JAPAN	
平成12年(2000) 4月12日	

BUDAPEST TREATY ON THE INTERNATIONAL  
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS  
FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT  
Issued pursuant to Rule 7.1 by the  
INTERNATIONAL DEPOSITORY AUTHORITY  
Identified at the bottom of this page

To: Depositor

Name: Takeda Chemical Industries, Ltd.  
Kunio TAKEDA  
representative

Address: 1-1, Doshomachi 4-chome, Chuo-ku, OSAKA 541 JAPAN

1. IDENTIFICATION OF THE MICROORGANISM

Identification reference given by the DEPOSITOR:	Accession number given by the INTERNATIONAL DEPOSITORY AUTHORITY
Hepc/2C9.1	PERM BP-7122

2. SCIENTIFIC DESCRIPTION AND PROPOSED TAXONOMIC DESIGNATION

The microorganism identified under 1 above was accompanied by:

- a scientific description  
 a proposed taxonomic designation

3. RECEIPT AND ACCEPTANCE

This International Depositary Authority accepts the microorganism identified under 1 above, which was received by it on April 12, 2000 (date of the original deposit).

4. RECEIPT OF REQUEST FOR CONVERSION

This International Depositary Authority accepted the microorganism identified under 1 above, which was received by it on - - - - (date of the original deposit), and received a request for conversion to a deposit under the Budapest Treaty from the original deposit on - - - -.

5. INTERNATIONAL DEPOSITORY AUTHORITY

Name: National Institute of Bioscience and Human-Technology  
Agency of Industrial Science and Technology  
Ph. D., DIRECTOR GENERAL Date: April 12, 2000  
Michio Oishi

Address: 1-3, Higashi 1-chome Tsukuba-shi Ibaraki-ken  
305-8566, JAPAN

国際様式 INTERNATIONAL FORM



BUDAPEST TREATY ON THE INTERNATIONAL  
RECOGNITION OF THE DEPOSIT OF  
MICROORGANISMS FOR THE PURPOSES OF  
PATENT PROCEDURE

RECEIPT IN THE CASE OF AN ORIGINAL  
DEPOSIT

Issued pursuant to Rule 7.1 by the  
INTERNATIONAL DEPOSITORY AUTHORITY  
Identified at the bottom of this  
page.

[特許手帳上の微生物の寄託の国際的承認  
に関するブダペスト条約]

下記国際寄託当局によって規則 7.1 に従い  
発行される。

**原寄託についての受託証**

氏名（名前） 梶田英品工業株式会社  
代表者 梶田 英男

寄託者

あて名 〒 大阪市中央区道修町四丁目1番1号

殿

<b>1. 寄生物の要覧</b>	
(寄託者が付した識別のための表示) Hepc/2000. 12	(受託番号) FERM BP- 7129
<b>2. 科学的性質及び分類学上の位置</b>	
1種の微生物には、次の事項を記載した文書が添付されていた。  ■ 科学的性質 ■ 分類学上の位置	
<b>3. 登録及び受託</b>	
本国際寄託当局は、平成 12 年 4 月 12 日（原寄託日）に発願した 1 種の微生物を受託する。	
<b>4. 管理権式の受領</b>	
本国際寄託当局は、 年 月 日（原寄託日）に 1 種の微生物を受領した。 そして、 年 月 日に原寄託よりブダペスト条約に基づく寄託への移管請求を受領した。	
<b>5. 国際寄託当局</b>	
<p>通商産業省工業技術院生命工学工業技術研究所</p> <p>名称: National Institute of Bioscience and Human-Technology Agency of Natural Resources and Environmental Sciences and Technology</p> <p>所長 大曾根 伸一 Dr. Shin-ichi Oizumi Director-General</p> <p>あて名: 日本国茨城県つくば市大字山王 1-3 (郵便番号305-8566) 1-3, Higashi 1-chome Tsukuba-shi Ibaraki-ken 305-8566, JAPAN</p> <p>平成12年(2000) 4月12日</p>	

BUDAPEST TREATY ON THE INTERNATIONAL  
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS  
FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT  
issued pursuant to Rule 7.1 by the  
INTERNATIONAL DEPOSITORY AUTHORITY  
identified at the bottom of this page

To: Depositor

Name: Takeda Chemical Industries, Ltd.  
Kunio TAKEDA  
representative

Address: 1-1, Doshomachi 4-chome, Chuo-ku, OSAKA 541 JAPAN

1. IDENTIFICATION OF THE MICROORGANISM

Identification reference  
given by the DEPOSITOR:

Hepc/2C19.12

Accession number given by the INTERNATIONAL  
DEPOSITORY AUTHORITY

FERM BP-7129

2. SCIENTIFIC DESCRIPTION AND PROPOSED TAXONOMIC DESIGNATION

The microorganism identified under 1 above was accompanied by:

- a scientific description  
 a proposed taxonomic designation

3. RECEIPT AND ACCEPTANCE

This International Depositary Authority accepts the microorganism identified  
under 1 above, which was received by it on April 12, 2000 (date of the original  
deposit).

4. RECEIPT OF REQUEST FOR CONVERSION

This International Depositary Authority accepted the microorganism identified  
under 1 above, which was received by it on ----- (date of the original  
deposit), and received a request for conversion to a deposit under the Budapest  
Treaty from the original deposit on -----.

5. INTERNATIONAL DEPOSITORY AUTHORITY

Name: National Institute of Bioscience and Human-Technology  
Agency of Industrial Science and Technology

Ph. D., DIRECTOR GENERAL  
Michio Oishi

Date: April 12, 2000

Address: 1-9, Higashi 1-chome Tsukuba-shi Ibaraki-ken  
305-8566, JAPAN

国際形式 INTERNATIONAL FORM

[ 特許手続上の微生物の寄託の国際的承認  
に関するブダペスト条約 ]下記国際寄託当局によって規則 7. 1 に従い  
発行される。

## 原寄託についての受託証

## BUDAPEST TREATY ON THE INTERNATIONAL RECOGNITION OF THE DEPOSIT OF MICROORGANISMS FOR THE PURPOSES OF PATENT PROCEDURE

## RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT

Issued pursuant to Rule 7. 1 by the INTERNATIONAL DEPOSITORY AUTHORITY identified at the bottom of this page.

氏名（名称） 武田薬品工業株式会社  
 代表者 武田 開男  
 寄託者 あて名 〒 大阪市中央区道修町四丁目1番1号

啟

1. 微生物の表示	
(寄託者が付した識別のための表示) Hepc/2006. 30	(受託番号) FERM BP- 7127
2. 科学的性質及び分類学上の位置	
1 植の微生物には、次の事項を記載した文書が添付されていた。 <input checked="" type="checkbox"/> 科学的性質 <input checked="" type="checkbox"/> 分類学上の位置	
3. 受領及び寄託	
本国際寄託当局は、平成 12 年 4 月 12 日（原寄託日）に受領した 1 植の微生物を受託する。	
4. 寄託請求の受領	
本国際寄託当局は、 年 月 日（原寄託日）に 1 植の微生物を受領した。 そして、 年 月 日に原寄託よりブダペスト条約に基づく寄託への移管請求を受領した。	
5. 国際寄託当局	
<p>通商産業省工業技術院生命工学工業技術研究所</p> <p>名称: National Institute of Biotechnology and Human Technology    Agency of Natural Resources and Environmental Science and Technology</p> <p>所長: 大野 伸一郎    Dr. Shin-ichiro Ono Director-General</p> <p>あて名: 日本茨城県つくば市大門町 1-3, Higashimatsuyama (郵便番号 305-8586)    305-8586, JAPAN</p> <p>平成 12 年 (2000) 4 月 12 日</p>	

BUDAPEST TREATY ON THE INTERNATIONAL  
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS  
FOR THE PURPOSES OF PATENT PROCEDURE

**INTERNATIONAL FORM**

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT  
issued pursuant to Rule 7.1 by the  
INTERNATIONAL DEPOSITORY AUTHORITY  
identified at the bottom of this page

To: Depositor

Name: Takeda Chemical Industries, Ltd.  
Kunio TAKEDA  
representative

Address: 1-1, Doshimachi 4-chome, Chuo-ku, OSAKA 541 JAPAN

## **1. IDENTIFICATION OF THE MICROORGANISM**

Identification reference  
given by the DEPOSITOR:

Accession number given by the INTERNATIONAL  
DEPOSITORY AUTHORITY

HcPC/2D6.39

FERM BP-3127

## 2. SCIENTIFIC DESCRIPTION AND PROPOSED TAXONOMIC DESIGNATION

The microorganism identified under 1 above was accompanied by:

- a scientific description
  - a proposed taxonomic designation

### **3. RECEIPT AND ACCEPTANCE**

This International Depository Authority accepts the microorganism identified under 1 above, which was received by it on April 12, 2000 (date of the original deposit).

#### **4. RECEIPT OF REQUEST FOR CONVERSION**

This International Depository Authority accepted the microorganism identified under 1 above, which was received by it on - - - - - (date of the original deposit), and received a request for conversion to a deposit under the Budapest Treaty from the original deposit on - - - - -.

## **6. INTERNATIONAL DEPOSITORY AUTHORITY**

Name: National Institute of Bioscience and Human-Technology  
Agency of Industrial Science and Technology

Ph. D., DIRECTOR GENERAL  
Michio Oishi

Date: April 12, 2000

Address: 1-3, Higashi 1-chome Tsukuba-shi Ibaraki-ken  
305-8556, JAPAN

## 国際様式 INTERNATIONAL FORM

[特許手続上の微生物の寄託の国際的承認  
に関するブダペスト条約]

下記国際寄託当局によって規則7.1に従い  
発行される。

## 原寄託についての受託証

氏名(名称) 武田薬品工業株式会社  
代表者 武田 國男  
寄託者 あて名  
大阪市中央区道修町四丁目1番1号

殿

BUDAPEST TREATY ON THE INTERNATIONAL  
RECOGNITION OF THE DEPOSIT OF  
MICROORGANISMS FOR THE PURPOSES OF  
PATENT PROCEDURERECEIPT IN THE CASE OF AN ORIGINAL  
DEPOSIT

Issued pursuant to Rule 7.1 by the  
INTERNATIONAL DEPOSITORY AUTHORITY  
Identified at the bottom of this  
page.

1. 微生物の概要 (寄託者が付した識別のための表示) Hapt/3A4, 8		(受託番号) FERM BP- 7120
2. 科学的性質及び分類学上の位置 1種の微生物には、次の事項を記載した文書が添付されていた。 <input checked="" type="checkbox"/> 科学的性質 <input checked="" type="checkbox"/> 分類学上の位置		
3. 受取及び登録 本國際寄託当局は、平成12年 6月 12日(原寄託日)に受領した1種の微生物を受託する。		
4. 寄託請求の受領 本国際寄託当局は、 年 月 日(原寄託日)に1種の微生物を受領した。 そして、 年 月 日に原寄託よりブダペスト条約に基づく寄託への移管請求を受領した。		
5. 国際寄託当局 通商産業省工業技術院生命工学工業技術研究所 National Institute of Biotechnology Name: Agency of Industrial Science and Technology 所長 大槻 伸一 Dr. Shige-ichi Otsuka Director-General あて名: 日本国茨城県つくば市東向山二丁目 (郵便番号305-8666) 1-3, Higashi 1-chome Tsukuba-shi Ibaraki-ken 305-8666, JAPAN 平成12年(2000) 6月12日		

BUDAPEST TREATY ON THE INTERNATIONAL  
RECOGNITION OF THE DEPOSIT OF MICROORGANISMS  
FOR THE PURPOSES OF PATENT PROCEDURE

INTERNATIONAL FORM

RECEIPT IN THE CASE OF AN ORIGINAL DEPOSIT  
issued pursuant to Rule 7.1 by the  
INTERNATIONAL DEPOSITORY AUTHORITY  
identified at the bottom of this page

To: Depositor

Name: Takeda Chemical Industries, Ltd.  
Kunio TAKEDA  
representative

Address: 1-1, Doshimachi 4-chome, Chuo-ku, OSAKA 541 JAPAN

1. IDENTIFICATION OF THE MICROORGANISM

Identification reference given by the DEPOSITOR:	Accession number given by the INTERNATIONAL DEPOSITORY AUTHORITY
Hepc/3A4.5	FERM BP-7120

2. SCIENTIFIC DESCRIPTION AND PROPOSED TAXONOMIC DESIGNATION

The microorganism identified under 1 above was accompanied by:

- a scientific description  
 a proposed taxonomic designation

3. RECEIPT AND ACCEPTANCE

This International Depositary Authority accepts the microorganism identified under 1 above, which was received by it on April 12, 2000 (date of the original deposit).

4. RECEIPT OF REQUEST FOR CONVERSION

This International Depositary Authority accepted the microorganism identified under 1 above, which was received by it on - - - - - (date of the original deposit), and received a request for conversion to a deposit under the Budapest Treaty from the original deposit on - - - - -.

5. INTERNATIONAL DEPOSITORY AUTHORITY

Name: National Institute of Bioscience and Human-Technology  
Agency of Industrial Science and Technology  
Ph. D., DIRECTOR GENERAL  
Michio Oishi

Date: April 12, 2000

Address: 1-3, Higashi 1-chome Tsukuba-shi Ibaraki-ken  
305-8666, JAPAN

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USSN 10/009,158  
Page 2 of 3

Agency of Industrial Science and Technology, located at 1-3, Higashi 1-chome,  
Tsukuba-shi, Ibaraki-ken 305-8566, Japan, for patent purposes.

4. The microorganisms and cell lines described in the above application, to which reference is made in the claims, have the following accession numbers and dates of deposit, as shown on the attached Receipts in Case of an Original Deposit:

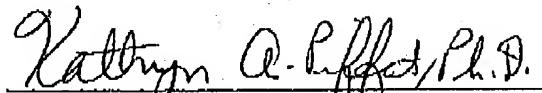
<u>Microorganism/Cell Line</u>	<u>FRI</u>
Hepc/1A1.4	FERM BP-7125
Hepc/1A2.9	FERM BP-7124
Hepc/2B6.68	FERM BP-7126
Hepc/2C8.46	FERM BP-7123
Hepc/2C9.1	FERM BP-7122
Hepc/2C19.12	FERM BP-7129
Hepc/2D6.39	FERM BP-7127
Hepc/3A4.5	FERM BP-7120

5. The above microorganisms and cell lines were deposited as stated under conditions prescribed by the Budapest Treaty. The FRI is currently the National Institute of Bioscience and Human-Technology Agency of Industrial Science and Technology which is an International Depositary Authority recognized by the Budapest Treaty as specified under 37 C.F.R. §1.803.
6. During the pendency of this application, access to the invention will be afforded to the Commissioner upon request.

Nanba *et al.*  
USSN 10/009,158  
Page 3 of 3

7. All restrictions on the availability to the public of the culture deposited will be irrevocably removed upon the granting of a patent from the above-identified application.
8. The deposit will be maintained in a public repository for a period of 30 years or 5 years after the last request or for the effective life of the patent, whichever is longer.
9. The deposit will be replaced if it should ever become inviable.

Respectfully submitted,



Kathryn A. Piffat, Ph.D. (Reg. No. 34,901)  
Intellectual Property Practice Group  
EDWARDS & ANGELL, LLP  
P.O. Box 55874  
Boston, MA 02205  
Telephone: 617-439-4444  
Facsimile: 617-439-4170

Date: January 29, 2004

Customer No. 21874

BOS2\_431965.1